Attorney Docket No.: 330310.00102 Customer No. 27160



U.S. Patent Application No. 10/669.251

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Leland SHAPIRO : Group Art Unit: 3736

Application No.: 10/669,251 : Examiner: Not Yet Assigned

Filed: September 25, 2003 : Confirmation No.: 3193

For: INHIBITORS OF SERINE PROTEASE:

ACTIVITY, METHODS AND

COMPOSITIONS FOR TREATMENT

OF NITRIC OXIDE INDUCED CLINICAL CONDITIONS

Atty. Dkt. No.: 330310.00102

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 February 8, 2005

## INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. §1.56 and in accordance with the practice under 37 C.F.R. §§1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Forms PTO/SB/08A and PTO/SB/08B. Please note that these documents were all considered in related application 09/518,097, filed March 3, 2000; now U.S. Patent No. 6,489,308, issued December 3, 2002. For the convenience of the Examiner a partial copy of the above patent with the listed references is enclosed. The citation numbers have been marked on the patent for ease of comparison.

### **FORMAL MATTERS**

In accordance with 37 C.F.R. § 1.97(b)(3), since a first Official Action on the merits of the subject application has not yet been issued, neither a certificate, petition nor payment of a fee is believed to be required for this Information Disclosure Statement. However, the Commissioner is hereby

Attorney Docket No.: 330310.00102 U.S. Patent Application No. Customer No. 27160 10/669,251

authorized to charge any fee which may be required in connection with this paper to Deposit Account No. 50-1710.

### **CONCLUSION**

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Forms PTO/SB/08A and PTO/SB/08B be returned indicating that such information has been considered.

Applicant's undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3500. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

Serge Sira, PH.D.

Attorney for Applicant Registration No. 39,445

Patent Administrator KATTEN MUCHIN ZAVIS ROSENMAN 525 West Monroe Street, Suite 1600 Chicago, Illinois 60661-3963 (202) 625-3500

PTO/SB/03A (00-03)

Approved for use through 07/31/2006, OMB 0851-0081 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Application Number	10/669,251	
Filing Date	September 25, 2003	
First Named Inventor	Leland SHAPIRO	
Art Unit	3736	
Examiner Name	Not Yet Assigned	
Attorney Docket Number	330310.00102	

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (I krowr)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 4,021,472 A	05/1977	Fujii et al.	
	2	<sup>US-</sup> 4,051,842 A	10/1977	Hazel et al.	
	3	<sup>US-</sup> 4,140,122 A	02/1979	Kuhl et al.	
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		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>		
	20	WO 94/07525	04/1994					
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	22	WO 95/34538	12/1995					
	23	WO 96/12021	04/1996					
	24	WO 96/14067	05/1996					
	25	WO 97/03679	02/1997					

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Sheet		2 of	17	Attorney Docket Number	330310.00102
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	45	WO 97/09346	03/1997			
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	48	WO 97/10231	03/1997			
	49	WO 97/21690	06/1997			
	50	WO 97/24339	07/1997			

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	51	<sup>US-</sup> 5,486,470 A	01/1996	Darke et al.	
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	70	WO 97/31937	09/1997					
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	74	WO 97/48706	12/1997					
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First Named Inventor Leland SHAPIRO

Art Unit 3736

Examiner Name Not Yet Assigned

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	76	<sup>US-</sup> 5,663,416 A	09/1997	Kirschenheuter et al	
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	95	WO 98/06417	02/1998					
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	99	WO 98/22098	05/1998					
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	115	WO 98/49190	11/1998			
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Examiner Signature	Date Considered	

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	118	WO 98/56821	12/1998			
	119	WO 97/41231	08/1999			
	120	WO 99/43308	09/1999			
	121	WO 00/52034	09/2000			

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STA	STATEMENT BY APPLICANT		First Named Inventor	Leland SHAPIRO		
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Sheet	7	of	17	Attorney Docket Number	330310.00102	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	122	Aoki H, Akaike T, Abe K, Kuroda M, Arai S, Okamura R, Negi A, Maeda H. Antiviral effect of oryzacystatin, a proteinase inhibitor in rice, against herpes simplex virus type I in vitro and in vivo. Antimicrob Agents Chemother Apr. 1995; 39(4):846-9.	
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Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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Sheet	10	of	17	Attorney Docket Number	330310.00102	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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INFO	DRMATION	DIS	CLOSURE	Filing Date	September 25, 2003
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		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	162	Nathan, C. in FASEB J. 1992, 6, 3501.		
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Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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Examiner	Date	
Signature	 Considered	

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Cussaid	10.10.10.11.11.1446.11.10			Application Number	10/669,251		
INF	DRMATION	N DIS	CLOSURE	Filing Date	September 25, 2003		
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Leland SHAPIRO		
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Sheet 14 of 17			17	Attorney Docket Number	330310.00102		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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Substitut	18 101 10:111 144E,P10			Application Number	10/669,251
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STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Leland SHAPIRO
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Sheet 15 of 17			17	Attorney Docket Number	330310.00102

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	202	Premack, B.A. et al., "Chemokine Receptors: Gateways to Inflammation and Infection", 1996, Nature Medicine 2:1174-1178.	
-"	203	Zhirnov O.P. et al., "Antiviral activity of proteinase inhibitors in cultured cells infected with alpha-viruses", Mol Gen Mikrobiol Virusol, 1985, (12):30-6.	
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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	212	Ooka, T., et al., "Protective effects of human uninary trypsin inhibitor against trypsin-induced relaxation in rat aorta", Crit care Med, 1996, 24(11): 1903-1907.	
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	219	Tang et al., "Inactivation of HIV-1 by trypsin and its use in demonstrating specific virus infection of cells", 1991, J Virol Methods, 33(1-2):39-46.	
	220	Glozman, "Immunologic functions of enzyme therapy of patients with orchiepidymitis", 1990, Antibiot. Khimioter, 35(7):50-52.	
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				Examiner Name	Not Yet Assigned	
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Examiner Initials*	Cite No. <sup>1</sup>	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	222	Gu et al., "Furin is important but not essential for the proteolytic maturation of gp160 of HIV-1", FEBS Lett. 1995, 365(1):95-7.	
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